Claims

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- 1. An improved code compression method for compressing code, **characterized** in that the method comprises a model creation phase which has a phase of treatment of model comprising growing a sub tree into a tree of said model and a phase of pruning said sub tree.
- 2. An improved code compression method according to claim 1, wherein the method comprises additionally another phase for treatment of code, according to said model.
- 3. An improved code compression method according to claim 1, wherein a first stopping criterion and a second stopping criterion are determined for defining when stopping the growing and/or the pruning.
 - 4. An improved code compression method according to claim 1, wherein said sub tree growing and said sub tree pruning are performed dependently on each other for optimizing a total cost of the treatment of model.
- 15 5. An improved code compression method according to claim 4, wherein the method comprises a training phase for optimizing the treatment of model according to an optimization criterion.
 - 6. An improved code compression method according to claim 5, wherein a cost is estimated against a cost function arranged to be available for estimating whether or not to have treatment of model on said at least one sub tree.
 - 7. An improved code compression method according to claim 5, wherein test data is used as an impulse for a treatment of model and the cost, as a cost for treatment of model, is evaluated as a response to the treatment of model as measured against an optimization criteria for said treatment of model.
- 8. An improved code compression method according to claim 7, wherein test data is arranged to comprise sets of test data as to form an ensemble of impulses for a treatment of model evaluation against an optimization criteria.
 - 9. An improved code compression method according to claim 8, wherein the method has a phase in which test data of the pruning phase is varied as based on the cost from growing a node and/or the test data of the growing phase is varied as based on the pruning cost.

- 10. An improved code compression method according to claim 1, wherein test data is used for treatment of model optimization, said test data comprising a standard part of code.
- 5 11. An improved code compression method according to claim 10, wherein said test data has pre-determined tolerances to yield an estimate on the cost in a process comprising a step of having treatment of model on a sub tree.
- 12. An improved code compression method according to claim 11 wherein the tolerances are determined iteratively.
 - 13. An improved code compression method according to claim 1, wherein bijectivity for the treatment of model and/or treatment of code is controlled.
- 15 14. An improved code compression method according to claim 1, wherein the method is applied recursively to a sub tree.
 - 15. An improved code compression method according to claim 1, wherein preextracted information is stored for a treatment of model comprising a sub tree.
- 16. An improved code compression method according to claim 1, wherein the growing and/or pruning phases are each optimized, for a code to be communicated in a communications network, for such a network that is comprising at least two network elements operable in the communication duties between said network elements.
- 17. An improved code compression method according to claim 1, wherein the growing and/or pruning phases are each optimized for storing said code.
 - 18. A system for code compression, **characterized** in that it comprises encoder further comprising means for growing a sub tree, means for pruning a sub tree and cost evaluation means arranged to control the growing and/or pruning a sub tree.
- 19. A system according to claim 18, wherein said means are implemented at least partly by a computer program product.
 - 20. A system according to claim 18, wherein said means comprise a hardware implementation for a part of said means.

- 21. A computer program product, **characterized** in that it is in a machine-readable form for executing a method according to claim 1.
- 22. A computer program product, **characterized** in that it is in a machine-readable form for implementing a system according to claim 18.
 - 23. A network element of a communication system comprising at least two net work elements and a network there between, for communicating coded code over a boundary layer between said network element and a second network element of the network, **characterized** in that said network element comprises encoder means further comprising means for growing a sub tree, means for pruning a sub tree and cost evaluation means arranged to control the growing and/or pruning a sub tree.
- 24. A network element of a communication system according to claim 23 wherein the net work element comprise a base station.

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- 25. A network element of a communication system according to claim 23 wherein the net work element is a mobile terminal.
- 26. A network element of a communication system according to claim 23 wherein the network element further comprises decoder means for decoding a code encoded by the encoder of claim 23.